



1 **EC - TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 94/9/EC**

3 EC - Type Examination Certificate Number: **Baseefa12ATEX0243X**

4 Equipment or Protective System: **Intrinsically Safe Coil with Circuit – Type 66 & Type 62
Low Power IS Coil – Type 71, Type 71L, Type 67 & Type 67L**

5 Manufacturer: **ROTEX AUTOMATION LTD**

6 Address: **987/11, GIDC, Makarpura, Vadodara, Gujarat, 390010, India**

7 This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 Baseefa, Notified Body number 1180, in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Report No. **GB/BAS/ExTR12.0308/00**

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0: 2012 EN 60079-11: 2012

except in respect of those requirements listed at item 18 of the Schedule.

10 If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

11 This EC - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified equipment or protective system. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

12 The marking of the equipment or protective system shall include the following :

See schedule

This certificate may only be reproduced in its entirety, without any change, schedule included.

Baseefa Customer Reference No. **6344**

Project File No. **09/0496**

This certificate is granted subject to the general terms and conditions of Baseefa. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

R S SINCLAIR

DIRECTOR

On behalf of

Baseefa

Baseefa

Rockhead Business Park, Staden Lane,

Buxton, Derbyshire SK17 9RZ

Telephone +44 (0) 1298 766600 Fax +44 (0) 1298 766601

e-mail info@baseefa.com web site www.baseefa.com

Baseefa is a trading name of Baseefa Ltd

Registered in England No. 4305578. Registered address as above.



13

Schedule

14

Certificate Number Baseefa12ATEX0243X

15 Description of Equipment or Protective System

The **Intrinsically Safe Coil with Circuit** (Type 66 & Type 62) is designed to lift the plunger & to hold it up with low power, until the coil is de-energised.

The equipment consists of a metallic enclosure with metallic cover secured with socket head screws, within which the coil winding, terminal block & booster electronic circuit are encapsulated in epoxy.

Connections are made through the cable entry onto the connector block with screw terminals.

The **Low Power IS Coil** (Type 71, Type 71L, Type 67 & Type 67L) is designed to operate a solenoid, until the coil is de-energised.

The equipment consists of a metallic box type enclosure with metallic cover secured with socket head screws, within which the coil winding encapsulated in epoxy and terminal block are located.

Connections are made through the cable entry onto the connector block with screw terminals.

User Terminals for Type 62, 66, 67, 67L, 71 & 71L

$U_i = 32\text{Vdc}$
 $I_i = 230\text{mA}$
 $P_i = 2.3\text{W}$
 $C_i = 0$
 $L_i = 0$

⊗ I M1 Ex ia I Ma (-60°C ≤Ta ≤+75°C) - Stainless Steel version only.

⊗ II 1G Ex ia IIC T5 Ga (-60°C ≤Ta ≤+75°C)

⊗ II 1G Ex ia IIC T6 Ga (-60°C ≤Ta ≤+60°C)

⊗ II 1D Ex ia IIIC T₂₀₀ 125°C IP67 Da (-60°C ≤Ta ≤+75°C)

16 Report Number

GB/BAS/ExTR12.0308/00

17 Specific Conditions of Use

1. The aluminium enclosure version must be mounted in such a manner as to eliminate the risk of sparks caused by friction or impact from iron/steel.
2. Only suitably certified cable glands shall be used with this equipment.

18 Essential Health and Safety Requirements

All relevant Essential Health and Safety Requirements are covered by the standards listed at item 9.

19 Drawings and Documents

Number	Sheet	Issue	Date	Description
11-BASEEFA-10401	1 of 1	2	04.12.2012	IS coil with circuit – Size-III Type-66 Size IV, Type-62
11-BASEEFA-30501-1	1 of 1	4	04.12.2012	Low Power IS Coil (Bottom Cable Entry) Type-71 (IEC Ex ia)



Number	Sheet	Issue	Date	Description
11-BASEEFA-30601-1	1 of 1	2	04.12.2012	Low Power IS Coil (Horizontal Cable Entry) Type-67 (IEC Ex ia)
11-BASEEFA-10403/AL	1 of 1	4	04.12.2012	Name plate for IS Solenoid (Al enclosure)
11-BASEEFA-10403/SS	1 of 1	4	04.12.2012	Name plate for IS Solenoid (SS enclosure)
11-BASEEFA-10406	1 of 7	1	04.12.2012	Intrinsically Safe Solenoid Coil Driver Circuit
11-BASEEFA-10406	2 of 7	1	04.12.2012	Intrinsically Safe Solenoid Coil Driver Circuit (Parts List)
11-BASEEFA-10406	3 of 7	0	04.12.2012	AB-PCB-322 Component Side
11-BASEEFA-10406	4 of 7	0	04.12.2012	AB-PCB-322 Solder Side
11-BASEEFA-10406	5 of 7	0	04.12.2012	AB-PCB-322 Solder Side Screen
11-BASEEFA-10406	7 of 7	0	04.12.2012	AB-PCB-322 Component Side Screen
11-BASEEFA-10407	1 to 2	0	04.12.2012	Low Power IS PCB
11-BASEEFA-30503	1 of 1	0	04.12.2012	Low Power IS Coil (Circuit Diagram)

These drawings are also associated and held with IECEx BAS 12.0128X.